

Amendments to the Claims

Claims 1 – 82 cancelled

83. (Currently Amended) A transformer device comprising:
a single core comprising a substantially rectangular shaped magnet having four sides, wherein two sides of the rectangular shaped magnet are parallel to each other;
two primary windings forming coils each having a substantially cylindrical shape, each primary winding being mounted co-axially with respect to one of the two parallel sides of the magnet; and
two secondary windings forming coils each having a substantially cylindrical shape, each secondary winding being located and arranged concentrically with one primary winding and having its cylindrical axis substantially aligned with said one parallel side ~~the core~~ of the magnet.

84. (Previously Presented) The transformer device as claimed in claim 83, wherein the power through the transformer is balanced between the two parallel sides.

85. (original) The transformer as claimed in claim 83, further comprising a tertiary winding mounted on each of the two primary windings.

86. (Previously Presented) The transformer as claimed in claim 83, further comprising an insulating compound between each pair of the primary and secondary windings being arranged concentrically.

87. (original) The transformer as claimed in claim 83, wherein the two primary windings are coupled in parallel.

88. (original) The transformer as claimed in claim 85, wherein the two tertiary windings are coupled in parallel.

89. (Previously Presented) A transformer device for an X-ray generating device, comprising:

a single core comprising a substantially rectangular shaped magnet having four sides, wherein two sides of the rectangular shaped magnet are opposing to each other;

two primary windings, each primary winding mounted co-axially with respect to one of the opposing sides of the magnet; and

two secondary windings, each secondary winding mounted co-axially with respect to one primary winding and co-axially with respect to one of the opposing sides of the magnet, wherein said secondary winding is connected to a load of said X-ray generating device and arranged for a resonant transfer of energy.

90. (Previously Presented) The transformer device as claimed in claim 83, wherein said primary winding is wound on a substantially cylindrical bobbin positionable over one parallel side.

91. (Previously Presented) The transformer device as claimed in claim 90, wherein said secondary winding is wound on a substantially cylindrical bobbin located over the primary winding, and the bobbins of said primary and secondary windings are arranged concentrically.

92. (Previously Presented) The transformer device as claimed in claim 91 including a space between said primary winding and said secondary winding, said space being filled with an insulator.

93. (Previously Presented) The transformer device as claimed in claim 92 wherein said insulator comprises a silicone rubber.

94. (Previously Presented) The transformer device as claimed in claim 91, wherein said bobbin of said secondary winding includes ribs.

95. (Previously Presented) The transformer device for an X-ray generating device, as claimed in claim 89, wherein an output of each secondary winding is connected to a capacitor forming an LC element.

96. (Previously Presented) The transformer device for an X-ray generating device, as claimed in claim 95 further including a full-wave rectifier bridge connected in parallel to the output of said secondary winding.

97. (Previously Presented) The transformer device for an X-ray generating device, as claimed in claim 96 further including a filter capacitor coupled across an output of said full-wave rectifier bridge.

98. (Previously Presented) The transformer device as claimed in claim 89, wherein said primary winding is wound on a substantially cylindrical bobbin positionable over one of said two opposing sides.

99. (Previously Presented) The transformer device as claimed in claim 98, wherein said secondary winding is wound on a substantially cylindrical bobbin located over said primary winding, and said bobbins of said primary and secondary windings are arranged concentrically.

100. (Previously Presented) The transformer device as claimed in claim 99 including a space between said primary winding and said secondary winding being arranged concentrically, said space being filled with an insulator.

101. (Previously Presented) The transformer device as claimed in claim 100, wherein said insulator comprises a silicone rubber.

102. (Previously Presented) The transformer device as claimed in claim 99, wherein said bobbin of said secondary winding includes ribs.

103. (Currently Amended) The transformer device for an X-ray generating device, as claimed in claim 98, wherein each said primary winding is wound together with a tertiary winding as a bifilar winding ~~windings~~ on said bobbin.

104. (Previously Presented) The transformer device for an X-ray generating device, as claimed in claim 103, wherein at least two of said tertiary windings are connected in parallel.

105. (Previously Presented) A transformer device comprising:
a single magnetic core comprising two parallel sides;
two primary windings and two tertiary windings, one said primary winding and one said tertiary winding being wound together on a primary bobbin positionable over one of said parallel sides of said magnetic core; and
two secondary windings each being wound on a secondary bobbin, said primary bobbin and said secondary bobbin being concentrically located with respect to each other and said coils wound on said bobbins defining a concentric space being filled by an insulator, wherein said two primary windings are coupled in parallel and said two tertiary windings are coupled in parallel.

106. (Previously Presented) The transformer device as claimed in claim 105, wherein said filled insulator comprises a silicone rubber casted in said concentric space.

107. (Previously Presented) The transformer device as claimed in claim 105, wherein said bobbin of said secondary winding includes ribs.